

ABSTRACT

Methods for electrodeposition of copper on a noble metal layer of a work piece are provided. An exemplary method includes exposing the noble metal layer to an electrodeposition composition. The electrodeposition composition comprises a copper salt, a suppressor, an accelerator and an electrolyte. The electrodeposition of copper on a surface of the noble metal layer is initiated by application of a predetermined current density to the work piece. The electrodeposition of copper is terminated upon the occurrence of a predetermined event.